

INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 B01F11/00 A21C1/08		International Application No PCT/US 98/24464
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 B01F A21C		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 92 10100 A (HEDEN TEAM AG) 25 June 1992 see abstract; claims 1,11,12; figures see page 10, line 23 - page 11, line 7	1-5, 16-25, 27-29, 32,34,39
X	US 4 803 086 A (HEDENBERG GUNNAR) 7 February 1989 see abstract; claim 1; figures see column 7, line 3 - column 7, line 38	1-5, 16-23, 25, 27-29, 32,34,39
A	DE 40 14 051 A (SCHREIBER HANS) 7 November 1991 see abstract; claim 1; figure 1	1
-/--		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center; font-weight: bold;">25 March 1999</div>		Date of mailing of the international search report <div style="text-align: center; font-weight: bold;">08/04/1999</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-weight: bold;">Dugdale, G</div>

INTERNATIONAL SEARCH REPORT

In ternational Application No
PCT/US 98/24464

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	PATENT ABSTRACTS OF JAPAN vol. 098, no. 009, 31 July 1998 & JP 10 099669 A (TORAY DOW CORNING SILICONE CO LTD), 21 April 1998 see abstract; figure ---	6-9, 12, 13, 31, 33, 36, 37
A	DATABASE WPI Section Ch, Week 8928 Derwent Publications Ltd., London, GB; Class A88, AN 89-202901 XP002097963 & JP 01 141541 A (IBIDEN CO LTD) , 2 June 1989 see abstract -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 98/24464

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9210100 A	25-06-1992	US 5146840 A	15-09-1992
US 4803086 A	07-02-1989	WO 8603931 A	17-07-1986
		AT 393771 B	10-12-1991
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		SE 465994 B	02-12-1991
		SE 8703161 A	14-08-1987
DE 4014051 A	07-11-1991	NONE	


INTERNATIONAL SEARCH REPORT

International Application No PCT/JP88/00515

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC		
Int.Cl ⁴ A47J37/00, A47J43/046		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
IPC	A47J37/00, A47J43/046, A21D8/00, A21C1/00, A21B1/00	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
Jitsuyo Shinan Koho 1926 - 1988 Kokai Jitsuyo Shinan Koho 1971 - 1988		
III. DOCUMENTS CONSIDERED TO BE RELEVANT ⁹		
Category [*]	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹² .	Relevant to Claim No. ¹³
A	JP, A, 62-5314 (Matsushita Electric Ind. Co., Ltd.) 12 January 1987 (12. 01. 87) (Family: none)	1-11
P	JP, A, 63-31626 (Matsushita Electric Ind. Co., Ltd.) 10 February 1988 (10. 02. 88) (Family: none)	3, 11
X	JP, A, 56-78553 (Toshiba Corp.) 27 June 1981 (27. 06. 81) (Family: none)	1
<p>[*] Special categories of cited documents: ¹⁰</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
IV. CERTIFICATION		
Date of the Actual Completion of the International Search		Date of Mailing of this International Search Report
August 1, 1988 (01. 08. 88)		August 15, 1988 (15. 08. 88)
International Searching Authority		Signature of Authorized Officer
Japanese Patent Office		

国 際 調 査 報 告

国際出願番号 PCT/JP 88/ 00515

I. 発明の属する分野の分類		
国際特許分類 (IPC) Int. Cl. A47J37/00, A47J43/046		
II. 国際調査を行った分野		
調 査 を 行 っ た 最 小 限 資 料		
分 類 体 系	分 類 記 号	
IPC	A47J37/00, A47J43/046, A21D8/00, A21C1/00, A21B1/00	
最小限資料以外の資料で調査を行ったもの		
日本国実用新案公報 1926-1988年 日本国公開実用新案公報 1971-1988年		
III. 関連する技術に関する文献		
引用文献の カテゴリー※	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	請求の範囲の番号
A	JP.A, 62-5314 (松下電器産業株式会社) 12. 1月. 1987 (12. 01. 87) (ファミリーなし)	1-11
P	JP.A, 63-31626 (松下電器産業株式会社) 10. 2月. 1988 (10. 02. 88) (ファミリーなし) JP.A, 56-78553 (東京芝浦電気株式会社) 27. 6月. 1981 (27. 06. 81) (ファミリーなし)	3, 11 1
<p>※引用文献のカテゴリー</p> <p>「A」 特に関連のある文献ではなく、一般的技術水準を示すもの</p> <p>「E」 先行文献ではあるが、国際出願日以後に公表されたもの</p> <p>「L」 優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献 (理由を付す)</p> <p>「O」 口頭による開示、使用、展示等に言及する文献</p> <p>「P」 国際出願日前で、かつ優先権の主張の基礎となる出願の日の後に公表された文献</p> <p>「T」 国際出願日又は優先日の後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの</p> <p>「X」 特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの</p> <p>「Y」 特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの</p> <p>「&」 同一パテントファミリーの文献</p>		
IV. 認 証		
国際調査を完了した日	国際調査報告の発送日	
01. 08. 88	1 5.08.88	
国際調査機関	権限のある職員	4 B 7 4 2 1
日本国特許庁 (ISA/JP)	特許庁審査官 森 田 ひとみ	

様式PCT/ISA/210(第2ページ) (1981年10月)

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